

East Branch Dam Safety Modification Project

PUBLIC INFORMATION MEETING

April 16, 2014

Johnsonburg, Pa



WHY WE ARE HERE

- **Communicate actions to improve dam safety**

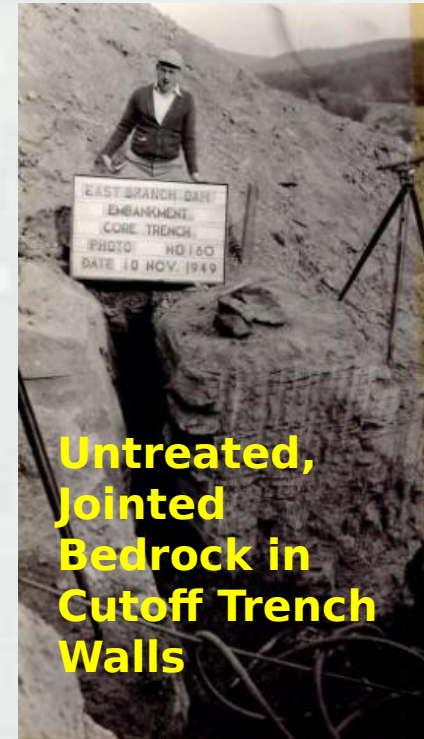
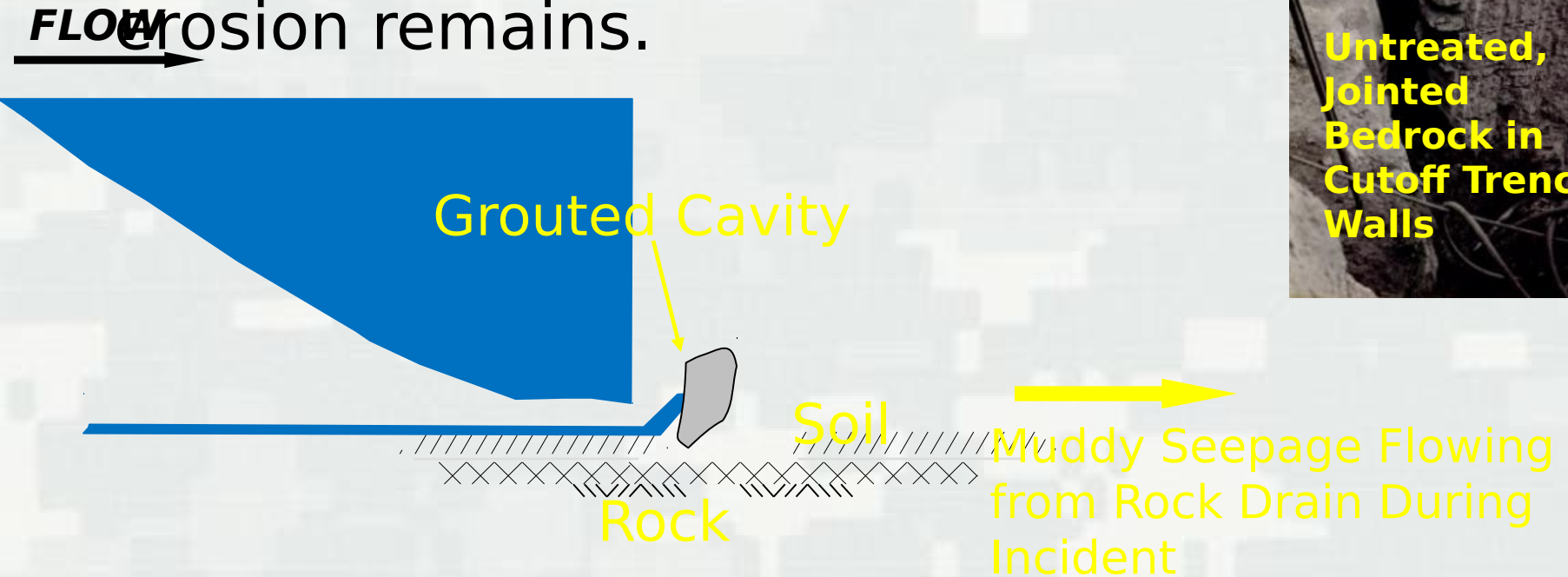
- What's The Problem
- What's Done
- The Way Ahead
- Questions



WHAT'S THE PROBLEM

Risk of Internal Erosion

Dam failure averted in 1957, but risk for re-initiation of internal erosion remains.

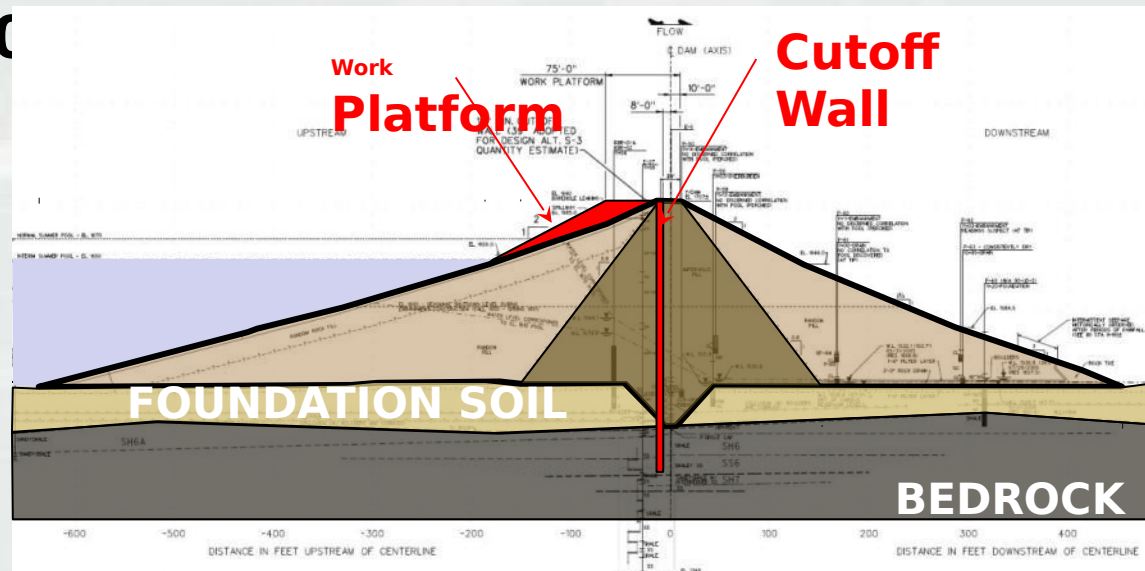


Untreated, Jointed Bedrock in Cutoff Trench Walls



WHAT'S DONE

- **1957 to 2008** – Monitor Dam
- **2008 to 2014** - Interim Risk Reduction
- **2008 to 2010** – Dam Safety Study
- **2010 to 2014** – Preconstruction, Engineering & Design
- **20**



WHAT'S DONE

Construction Contracts

- **2011 to 2013** - Site Development Contract
- **2012 to 2014** - Building Contract
- **2013 to 2014** - Guiderail & Weir Pond Contract



WHAT'S DONE

Instrumentation

- **2012** – Nine new Piezometers Installed
- **2013** – Data Loggers Installation
- **2013 - 2014** – Instrumentation Automation (Ongoing)



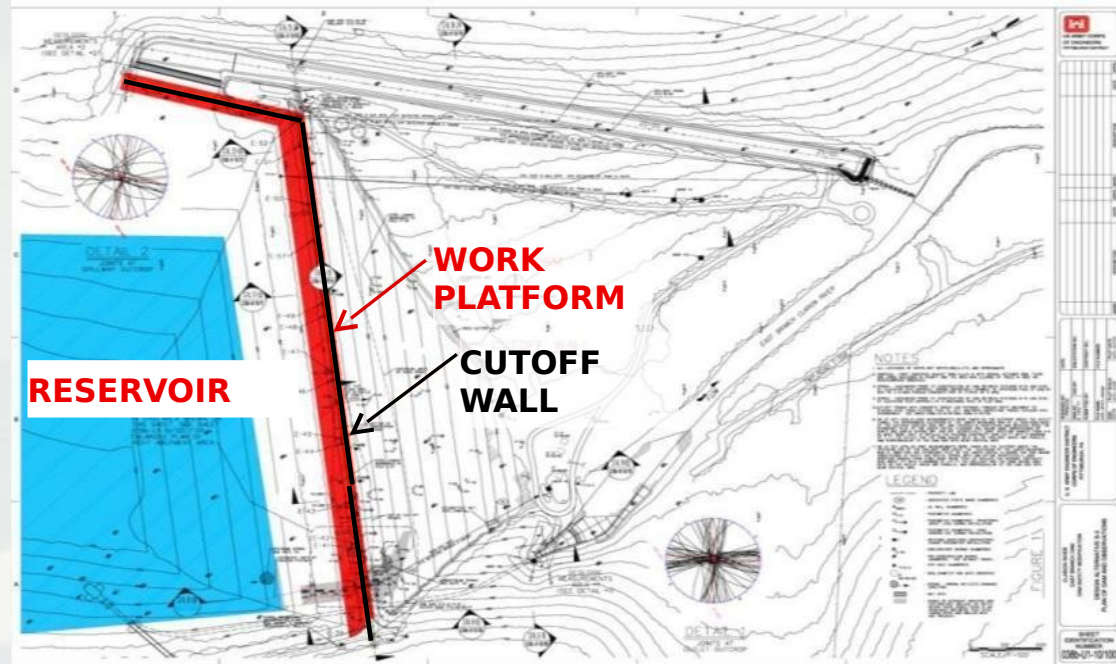
WHAT'S DONE

Cutoff Wall

Preconstruction

- **2011 - 2013**

- Geotech investigations
- Acquisition Plan
- Plans & specs
- Reviews



WHAT'S DONE

Cutoff Wall

Work Platform Design

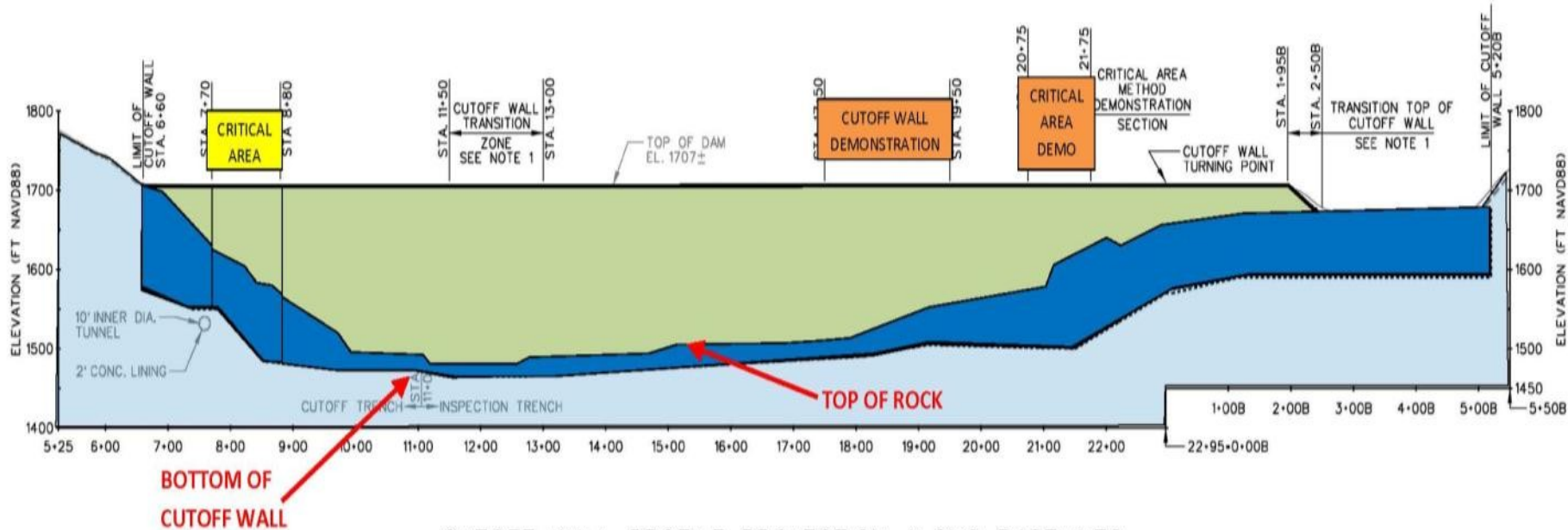
- **Maximum Geometry**
 - 100 ft maximum width
 - 30° maximum slope (Slope Stability)
- **Concrete Work Surface**



WHAT'S DONE

Cutoff Wall






Design



CUTOFF WALL PROFILE PROJECTION ALONG BASELINES

STA. 5+25 TO 22+95 AND STA. 0+00B TO 5+50B

(FACING UPSTREAM)
SCALE: 1"=100'

- | | |
|---|--|
|  Bedrock |  Critical Area (Special Precautions in Soil and Rock) |
|  Cutoff Wall Excavation (Soil) |  Demonstration Sections |
|  Cutoff Wall Excavation (Rock) | |

THE WAY AHEAD

Cutoff Wall Construction

- **May 2013** - Advertise cutoff wall contract
- **Oct 2013** - Contractors Submit Initial Proposals
- **2014** - Award Cutoff Wall Contract
- **Construct Cutoff Wall**
 - 4 years 9 months period of performance
 - Production work hour limitations

**Reverse
Circulation
on
Drill**



Hydromill

THE WAY AHEAD

Cutoff Wall Construction

Increased Traffic

- **Volume and frequency** - is contractor, equipment, and construction activity dependent
 - Average annual traffic on SR 1001 is 164,500 vehicles
 - 3 to 6% more on SR 1001 during construction on average
- **Traffic Control Plan**
 - Maintain access to Maple Lane
- **Transportation Management**
 - Maintenance Plan, Permits & Bonds



Public Safety



THE WAY AHEAD

Cutoff Wall Construction

Dam Safety

- **Instrumentation**

- Automated & manual readings

- **Visual Inspection**

- Continued 24-hour government presence

- **Contractor's Emergency Plan**

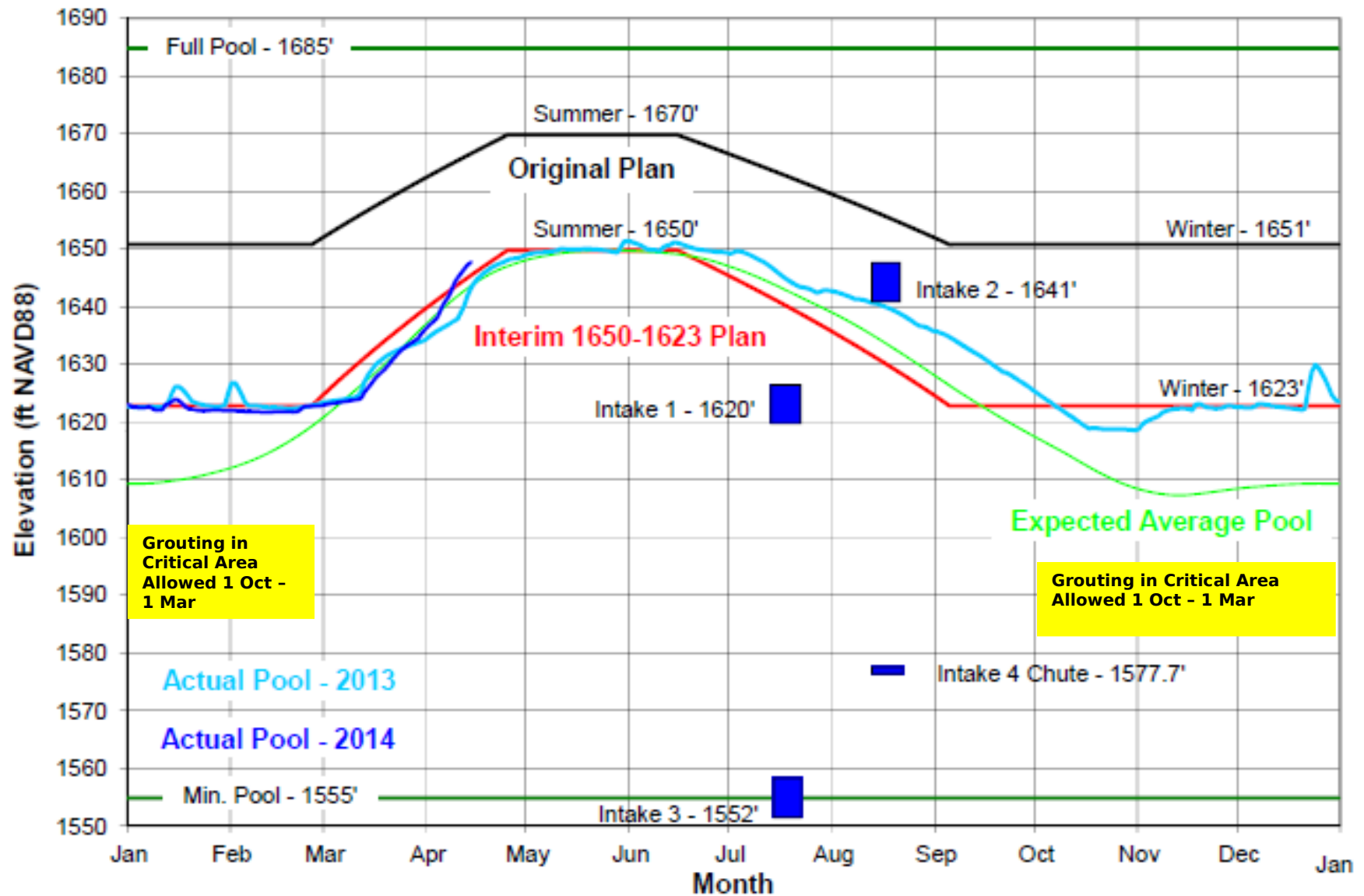
- **Government's Emergency Action Plan**

- Exercises with contractor & emergency responders



East Branch Clarion River Lake 1650-1623 Interim Water Control Plan

14 April 2014

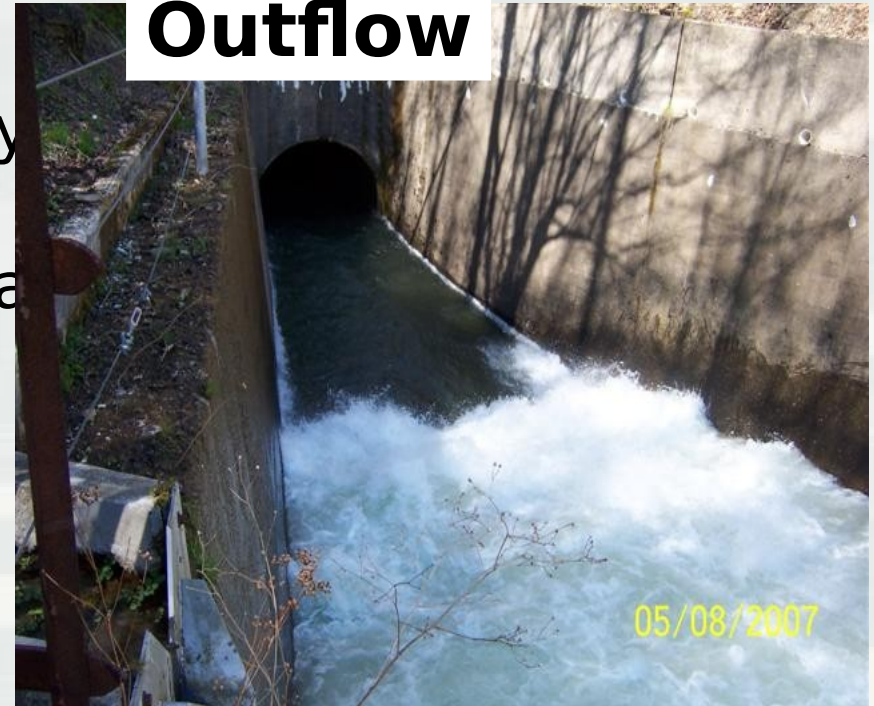


THE WAY AHEAD

Cutoff Wall Construction

Safety During Construction

- Comply with Federal, State, and County Environmental Regulations
- Monitor Lake Water Quality
- Monitor Outflow Water Quality



CONTACT INFORMATION

Resources

East Branch Dam Operations

Mike Setlock

East Branch Park Manager, 814-965-2065

E-mail:

Michael.J.Setlock@usace.army.mil

Media & General Inquiries

Dan Jones

Public Affairs, 412-395-7500

Website:

Daniel.W.Jones@usace.army.mil

[www.lrp.usace.army.mil/rec/lakes/eastbran.h
tm](http://www.lrp.usace.army.mil/rec/lakes/eastbran.htm)

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